

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006374

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02B53/00 F01C1/344 F01C19/02 F01C21/10 F01C11/00
F01C21/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F02B F01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 197 44 812 A (HEROLD & SEMMLER TRANSPORTTECH) 8 April 1999 (1999-04-08) column 1, lines 3-7 column 3, line 46 - column 4, line 14 figures 1,2	1-9, 18
X	DE 44 22 720 A (MORGENROTH INGOLF DIPL ING) 4 January 1996 (1996-01-04) column 1, lines 8-15 column 1, lines 29-31 figure 1	1-9, 18
X A	WO 03/036047 A (ENGINION AG ; CLEMENS HERBERT (DE)) 1 May 2003 (2003-05-01) figures 1-3 page 6, paragraph 1 abstract claims 1-7	1-7, 9, 18 8

-/-

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

28 September 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 072 705 A (OVERMAN KENNETH) 17 December 1991 (1991-12-17) figures 1-3 abstract claims 1-22	1-7, 9, 18
X	----- US 3 200 796 A (VACLAV STOUPA ET AL) 17 August 1965 (1965-08-17)	1-6, 9, 18
A	figures 1-7 claims 1-11	8
A	----- US 1 899 374 A (WERLE MATHEW C) 28 February 1933 (1933-02-28) figures 1-5 claims 1-5	1-13, 15, 17
A	----- PATENT ABSTRACTS OF JAPAN vol. 2003, no. 08, 6 August 2003 (2003-08-06) & JP 2003 097206 A (HONDA MOTOR CO LTD), 3 April 2003 (2003-04-03) abstract	1-5
A	----- US 4 399 654 A (DAVID CONSTANT V) 23 August 1983 (1983-08-23) column 1, lines 7-9 column 9, lines 1-12 figure 19 -----	1, 6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/006374

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19744812	A	08-04-1999	DE 19744812 A1	08-04-1999
DE 4422720	A	04-01-1996	DE 4422720 A1	04-01-1996
WO 03036047	A	01-05-2003	DE 20117224 U1 WO 03036047 A1	13-12-2001 01-05-2003
US 5072705	A	17-12-1991	NONE	
US 3200796	A	17-08-1965	AT 255833 B DE 1426064 A1 GB 998144 A	25-07-1967 21-11-1968 14-07-1965
US 1899374	A	28-02-1933	NONE	
JP 2003097206	A	03-04-2003	NONE	
US 4399654	A	23-08-1983	DE 3376348 D1 EP 0087242 A1 JP 58152102 A	26-05-1988 31-08-1983 09-09-1983